

Form PTO-449 (Rev. 11-1-99)

U.S. Department of Commerce  
Patent and Trademark OfficeApp. Docket No.  
01017-36370Applicant  
Lawrence M. SouzaFiling Date  
October 29, 1999Serial  
1646

## INFORMATION DISCLOSURE STATEMENT

(Applicant's name in all caps)

JP73 US PTO  
09/992873  
11/06/01

## U.S. PATENT DOCUMENTS

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
CK	A1	4,358,535	11/9/82	Falkow et al.	435	5	
	A2	4,394,443	7/19/83	Weissman et al.	435	6	
	A3	4,810,643	03/07/89	Souza	435	68	
	A4	4,833,127	05/23/89	Ono et al.	514	21	
	A5	4,904,584	02/90	Shaw	530	531	
	A6	4,999,291	03/12/91	Souza	435	69.1	
	A7	5,582,823	12/10/96	Souza	424	85.2	
	A8	5,830,705	11/03/98	Souza	435	69.5	
	A9	6,004,548	12/21/99	Souza	424	85.1	

## FOREIGN PATENT DOCUMENTS

*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
CK	B1	136,490	4/10/85	EPO				
	B2	WO 83/04053	11/24/83	WO				
	B3	WO 85/02610	6/20/85	WO				
	B4	WO 85/00817	2/28/85	WO				
	B5	WO 86/04506	8/14/86	WO (1st page)				
	B6	23777-85	2/8/85	Japan				

EXAMINER

C. J. Williams

DATE CONSIDERED

2/1/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-429 (Modified)

U.S. Department of Commerce  
Patent and Trademark OfficeApp. Docket No.  
01017 36370

Serial No.

## INFORMATION DISCLOSURE STATEMENT

*(To be signed if appropriate)*Applicant  
Lawrence M. SouzaFiling Date  
October 29, 1999

16

 10933 U.S. PTO  
 09/992873  
 11/06/01

## FOREIGN PATENT DOCUMENTS

*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
ECZ	B7	206066-85	9/17/85	Japan				
	B8	WO 86 04605	8/14/86	WO(1st page)				
	B9	0 109 748	5/30/84	EPO				
	B10	2 130 219	1/29/86	UK				
	B11	A1 0 169 566	1/29/86	EPO				
	B12	217150/85	09/85	Japan				
	B13	209638/85	9/20/85	Japan			x	
	B14	0 215 126 A	03/25/87	EPO				
	B15	0 220 520 A	05/06/87	EPO				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

ECZ	C1	Baron et al., "Antibodies against the chemically synthesized genome-linked protein of poliovirus react with native virus-specific proteins." <i>Cell</i> , 28, pp. 395-404 (1982).
	C2	Benton et al., "Screening $\lambda$ gt recombinant clones by hybridization to single plaques in situ." <i>Science</i> , 196, pp. 180-182 (1977).
	C3	Broxmeyer et al., "Cell-free granulocyte colony inhibiting activity derived from human polymorphonuclear neutrophils." <i>Exp. Hemat.</i> , 5, pp. 87-102, (1977).
	C4	Burgess et al., "Purification and properties of colony-stimulating factor from mouse lung-conditioned medium." <i>The Journal of Biological Chemistry</i> , 252, No. 6, pp. 1998-2003 (1977).
	C5	Burgess et al., "Characterization of a serum factor stimulating the differentiation of myelomonocytic leukemic cells." <i>In J. Cancer</i> , 26, pp. 647-654 (1980).

EXAMINER *E. J. Gennaro*DATE CONSIDERED *2/1/00*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-427 (Modified)	Department of Commerce Patent and Trademark Office	App. Docket No. 01017-36370	Serial No. <u>51/892,152</u> <u>40-430,142</u>
<b>INFORMATION DISCLOSURE STATEMENT</b>		Applicant Lawrence M. Souza	
		Filing Date <u>W/LD</u> <u>October 29, 1999</u>	Class 1646
(Use several sheets if necessary)			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
<u>EC</u>	C6	Caruthers et al., "New methods for synthesizing deoxyoligonucleotides," Department of Chemistry, University of Colorado, Boulder, CO 80309, pp. 1-17 (1982).
	C7	Chirgwin et al., "Isolation of biologically active ribonucleic acid from sources enriched in ribonuclease," <i>Biochemistry</i> , 18, No. 24, pp. 5294-5299 (1979).
	C8	Das et al., "Human colony-stimulating factor (CSF-1) radioimmunoassay: resolution of three subclasses of human colony-stimulating factors," <i>Blood</i> , 58, No. 3, pp. 630-641 (1981).
	C9	Davis et al., <u>A Manual for Genetic Engineering, Advanced Bacterial Genetics</u> , Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, pp. 55-58 & 174-176 (1980).
	C10	Dexter et al., "The role of growth factors in haemopoiesis," <i>BioEssays</i> , 2, No. 4, pp. 154-158 (1985).
	C11	Dreesman et al., "Antibody to hepatitis B surface antigen after a single inoculation of uncoupled synthetic HBsAg peptides," <i>Nature</i> , 295, pp. 158-160 (1982).
	C12	Gough et al., "Molecular cloning of cDNA encoding a murine haematopoietic growth regulator, granulocyte-macrophage colony stimulation factor," <i>Nature</i> , 309, pp. 763-767 (1984).
	C13	Green et al., "Immunogenic structure of the influenza virus hemagglutinin," <i>Cell</i> , 28, pp. 477-487 (1982).
	C14	Hanahan, "Studies on transformation of <i>Escherichia coli</i> with plasmids," <i>J. Mol. Biol.</i> , 166, pp. 557-580 (1983).
	C15	Hewick et al., "A gas-liquid solid phase peptide and protein sequenator," <i>The Journal of Biological Chemistry</i> , pp. 7990-7997 (1981).
	C16	Ihle et al., "Procedures for the purification of interleukin 3 to homogeneity," <i>The Journal of Immunology</i> , 129, No. 6, pp. 2431-2436 (1982).
	C17	Jaye et al., "Isolation of a human anti-haemophilic factor IX cDNA clone using a unique 52-base synthetic oligonucleotide probe deduced from the amino acid sequence of bovine factor IX," <i>Nucleic Acids Research</i> , 11, No. 8, pp. 2325-2335 (1983).
<u>u</u>	C18	Kaiser et al., "Amphiphilic secondary structure: design of peptide hormones," <i>Science</i> , 223, pp. 249-255 (1984).

EXAMINER <u>E. J. [Signature]</u>	DATE CONSIDERED <u>1/11/00</u>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form 110 (2-79 Modified)	U.S. Department of Commerce Patent and Trademark Office	App. Docket No. 01017 36370	Serial No. 67/972,123 409 430,103
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		App. Cant. Lawrence M. Souza	
		Filing Date 11/6/80 October 29, 1990	Class 1646

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
8/1/80	C19	Lai, "Technical improvements in protein microsequencing," <i>Analytica Chimica Acta</i> , 163, pp. 243-248 (1984).
	C20	Lawn et al., "The isolation and characterization of linked $\delta$ - and $\beta$ -globin genes from a cloned library of human DNA," <i>Cell</i> , 15, pp. 1157-1174 (1978).
	C21	Lee et al., "Isolation of cDNA for a human granulocyte-macrophage colony-stimulating factor by functional expression in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> , 82, pp. 4360-4364 (1985).
	C22	Lerner et al., "Antibodies to chemically synthesized peptides predicted from DNA sequences as probes of gene expression," <i>Cell</i> , 23, pp. 309-310 (1981).
	C23	Lerner et al., "Chemically synthesized peptides predicted from the nucleotide sequence of the hepatitis B virus genome elicit antibodies reactive with the native envelope protein of Dane particles," <i>Proc. Natl. Acad. Sci. USA</i> , 78, pp. 3403-3407 (1981).
	C24	Lerner, "A short chain of amino acids assembled in the laboratory to mimic a site on the surface of a viral protein can give rise to antibodies of predetermined specificity that confer immunity against the virus," <i>Synthetic Vaccines</i> , pp. 66-74 (undated).
	C25	Lu et al., "Association of cell cycle expression of Ia-like antigenic determinants on normal human multipotential (CFU-GEMM) and erythroid (BFU-E) progenitor cells with regulation in vitro by acidic isoferitins," <i>Blood</i> , 61, No. 2, pp. 250-156 (1983).
	C26	Maniatis et al., "Amplification and characterization of a $\beta$ -globin gene synthesized in vitro," <i>Cell</i> , 8, pp. 163-182 (1976).
	C27	Metcalf, "Clonal extinction of myelomonocytic leukemic cells by serum from mice injected with endotoxin," <i>Int. J. Cancer</i> , 25, pp. 225-233 (1980).
	C28	Metcalf et al., "Autoinduction of differentiation in WEHI-3B leukemia cells," <i>Int. J. Cancer</i> , 30, pp. 773-780 (1982).
	C29	Metcalf, "The granulocyte-macrophage colony-stimulating factors," <i>Science</i> , 229, pp. 16-22 (1985).
	C30	Nicola et al., "Purification of a factor inducing differentiation in murine myelomonocytic leukemia cells," <i>The Journal of Biological Chemistry</i> , 258, No. 14, pp. 9017-9023 (1983).

EXAMINER E. H. ...	DATE CONSIDERED 11/6/80
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO 1449 (Mailed)

U.S. Department of Commerce  
Patent and Trademark OfficeApp. Docket No.  
01017 36370

51/712573

~~09 430,103~~

## INFORMATION DISCLOSURE STATEMENT

App. Inventor  
Lawrence M. SouzaFiling Date  
w/6/91  
October 20, 1999Serial  
1646

(Use several sheets if necessary.)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

906	C31	Nicola et al., "Binding of the differentiation-inducer, granulocyte-colony-stimulating factor, to responsive but not unresponsive leukemic cell lines," <i>Proc. Natl. Acad. Sci. USA</i> , 81, pp. 3765-3769 (1984).
	C32	Nicola et al., "Hemopoietic colony-stimulating factors," <i>Immunology Today</i> , 5, No. 3, pp. 76-80 (1984).
	C33	Nicola et al., "Identification of the human analogue of a regulator that induces differentiation in murine leukaemic cells," <i>Nature</i> , 314, pp. 625-628 (1985).
	C34	Nigg et al., "Immunofluorescent localization of the transforming protein of Rous sarcoma virus with antibodies against a synthetic <i>src</i> peptide," <i>Proc. Natl. Acad. Sci. USA</i> , 79, pp. 5322-5326 (1982).
	C35	Okayama et al., "A cDNA cloning vector that permits expression of cDNA inserts in mammalian cells," <i>Molecular and Cellular Biology</i> , pp. 280-289 (1983).
	C36	Okayama et al., "High-efficiency cloning of full-length cDNA," <i>Molecular and Cellular Biology</i> , pp. 161-170 (1982).
	C37	Palmiter et al., "Metallothionein-human GH fusion genes stimulate growth of mice," <i>Science</i> , 222, pp. 809-814 (1983).
	C38	Payvar et al., "Methylmercury hydroxide enhancement of translation and transcription of ovalbumin and conalbumin mRNA's," <i>The Journal of Biological Chemistry</i> , 254, No. 16, pp. 7636-7642 (1979).
	C39	Reyes et al., "Isolation of a cDNA clone for the murine transplantation antigen H-2K <sup>b</sup> ," <i>Proc. Natl. Acad. Sci., USA</i> , 79, pp. 3270-3274 (1982).
	C40	Ross et al., "Phosphotyrosine-containing proteins isolated by affinity chromatography with antibodies to a synthetic hapten," <i>Nature</i> , 294, pp. 654-656 (1981).
	C41	Sachs, L. "Growth, Differentiation and the Reversal of Malignancy," <i>Scientific American</i> , 254(1):40-47 (1986).
	C42	Sanger et al., "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> , 74, No. 12, pp. 5463-5467 (1977).
✓	C43	Takahashi et al., "Molecular cloning of the human cholecystokinin gene by use of a synthetic probe containing dioxynosine," <i>Proc. Natl. Acad. Sci. USA</i> , 82, pp. 1931-1935 (1985).

EXAMINER

S. J. [Signature]

DATE CONSIDERED

3/18/83

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449 (Modified)

U.S. Department of Commerce  
Patent and Trademark OfficeApp. Docket No.  
01017 36370Serial 87992373  
009 430 405

## INFORMATION DISCLOSURE STATEMENT

Applicant  
Lawrence M. SouzaFiling Date 11/6/01  
October 29, 1999Class  
1646

(If several sheets necessary)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<u>Exk</u>	C44	Tejedor et al., "Iodination of biological samples without loss of functional activity," <i>Analytical Biochemistry</i> , 127, pp. 143-149 (1982).
	C45	Tramontano et al., "Statistical evaluation of the coding capacity of complementary DNA strands," <i>Nucleic Acids Research</i> , 12, No. 12, pp. 5049-5059 (1984).
	C46	Venuta et al., "Production and regulation of interleukin-2 in human lymphoblastic leukemias studied with T-cell monoclonal antibodies," <i>Blood</i> , 61, No. 4, pp. 781-789 (1983).
	C47	Wahl et al., "Efficient transfer of large DNA fragments from agarose gels to diazobenzyloxymethyl-paper and rapid hybridization by using dextran sulfate," <i>Proc. Natl. Acad. Sci. USA</i> , 76, No. 8, pp. 3683-3687 (1979).
	C48	Wallace et al., "Hybridization of synthetic oligodeoxyribonucleotides to $\Phi \chi$ 174 DNA: the effect of single base pair mismatch," <i>Nucleic Acids Research</i> , 6, No. 11, pp. 3543-3557 (1979).
	C49	Walter et al., "Antibodies specific for the carboxy- and amino-terminal regions of simian virus 40 large tumor antigen," <i>Proc. Natl. Acad. Sci. USA</i> , 77, No. 9, pp. 5970-5200 (1980).
	C50	Walter et al., "Antibodies specific for the polyoma virus middle-size tumor antigen," <i>Proc. Natl. Acad. Sci. USA</i> , 78, No. 8, pp. 4882-4886 (1981).
	C51	Weiland et al., "In vivo activity of asialo-erythropoietin in combination with asialo-glycoproteins," <i>Blut</i> , 44, pp. 173-175 (1982).
	C52	Welte et al., "Purification and biochemical characterization of two differentiation inducing proteins for leukemic cells produced by a bladder carcinoma cell line," Abstract No. 0287, <i>Leukemia 1985</i> , p. 116 (1985).
	C53	Welte et al., "Purification and biochemical characterization of two differentiation inducing proteins for leukemic cells produced by the bladder carcinoma cell line 5637," <i>Leukemia: Recent Advances in Biology and Treatment</i> , Proceedings of a UCLA Symposium held in Keystone, Colorado, January 27-February 2, 1985, Gale et al., (eds.), Alan R. Liss, Inc., New York, pp. 339-347 (1985).
<u>4</u>	C54	Welte et al., "Purification and biochemical characterization of human pluripotent hematopoietic colony-stimulating factor," <i>Proc. Natl. Acad. Sci. USA</i> , 82, pp. 1526-1530 (1985).

EXAMINER

E. J. [Signature]

DATE CONSIDERED

3/15/02

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1442 (Modified)

U.S. Department of Commerce  
Patent and Trademark Office

App. Docket No.

01017 36370

Serial No.

09430102

## INFORMATION DISCLOSURE STATEMENT

Applicant

Lawrence M. Souza

Filing Date

10/10/00  
October 29, 1999

Class

1646

(Use several sheets if necessary)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

C55	Wigler et al., "Biochemical transfer of single-copy eucaryotic genes using total cellular DNA as donor," <i>Cell</i> , 14, pp. 725-731 (1978).
C56	Wong et al., "Synthetic peptide fragment of <i>src</i> gene product inhibits the <i>src</i> protein kinase and crossreacts immunologically with avian <i>onc</i> kinases and cellular phosphoproteins," <i>Proc. Natl. Acad. Sci. USA</i> , 78, No. 12, pp. 7412-7416 (1981).
C57	Wong et al., "Human GM-CSF: molecular cloning of the complementary DNA and purification of the natural and recombinant proteins," <i>Science</i> , 228, pp. 810-815 (1985).
C58	Yokota et al., "Isolation and characterization of a mouse cDNA clone that expresses mast-cell growth-factor activity in monkey cells," <i>Proc. Natl. Acad. Sci. USA</i> , 81, pp. 1070-1074 (1984).
C62	Bird, "DNA methylation and the frequency of CpG in animal DNA," <i>Nucleic Acids Res.</i> , 8, pp. 1499-1504 (1980).
C63	Clark-Lewis et al., "Purification to apparent homogeneity of a factor stimulating the growth of multiple lineages of hemopoietic cells," <i>J. Biol. Chem.</i> , 259, pp. 7488-7494 (1984).
C64	DeLamarier et al., "Recombinant murine GM-CSF from <i>E. coli</i> has biological activity and is neutralized by a specific antiserum," <i>EMBO Journal</i> , 4, No. 10, pp. 2575-2581 (1985).
C65	Glover, <i>DNA Cloning</i> , Vols. 1 & 2, pp. 191-211 and 213-239 (1985).
C66	Glover, "The mechanics of DNA manipulation," <i>Gene Cloning</i> , pp. 179-213 (1984).
C67	Grantham et al., "Codon catalog usage is a genome strategy modulated for gene expressivity," <i>Nucleic Acids Res.</i> , 9, No. 1, pp. 43-74 (1981).
C68	Gray et al., "Expression of human immune interferon cDNA in <i>E. coli</i> and monkey cells," <i>Nature</i> , 295, pp. 503-508 (1982).
C69	Hunkapiller et al., "Protein sequence analysis: automated microsequencing," <i>Science</i> , 219, pp. 650-654, 659 (1983).
C70	Lathe, "Synthetic oligonucleotide probes deduced from amino acid sequence data," <i>J. Mol. Biol.</i> , 183, pp. 1-12 (1985).
C71	Marasco et al., "Substance P binds to the formylpeptide chemotaxis receptor on the rabbit neutrophil," <i>Biochem. and Biophys. Res. Comm.</i> , 99, No. 4, pp. 1065-1072 (1981).

EXAMINER

E. J. ...

DATE CONSIDERED

3/12/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form MPEP-42 (Rev. 10/84)

U.S. Department of Commerce  
Patent and Trademark OfficeApp. Docket No.  
01017-36370Serial No. ~~09430103~~  
09430103

## INFORMATION DISCLOSURE STATEMENT

Applicant  
Lawrence M. SouzaFiling Date 10/6/90  
October 29, 1999Class  
1646

(Use several sheets if necessary.)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EW	C72	March et al., "Cloning, sequence and expression of two distinct human interleukin-1 complementary DNAs." <i>Nature</i> , 315, pp. 641-647 (1985).
	C73	Nagata et al., "The chromosomal gene structure and two mRNAs for human granulocyte colony-stimulating factor." <i>EMBO Journal</i> , 5, No. 3, pp. 575-581 (1986).
	C74	Nagata et al., "Molecular cloning and expression of cDNA for human granulocyte colony-stimulating factor." <i>Nature</i> , 319, pp. 415-418 (1986).
	C75	Wang et al., "Molecular cloning of the complementary DNA for human tumor necrosis factor." <i>Science</i> , 228, pp. 149-154 (1985).
	C76	Welte et al., "Purification to apparent homogeneity and biochemical characterization of human pluripotent hematopoietic colony-stimulating factor." <i>Haematology and Blood Transfusion</i> , 29, pp. 398-401 (1985).
	C77	Welte et al., "Purification and biochemical characterization of human pluripotent hematopoietic colony-stimulating factor produced by a human bladder carcinoma cell line." Abstract, <i>Lymphokine Res.</i> 3, 4, p. 281 (1984).
	C78	Zsebo et al., "Recombinant human granulocyte colony stimulating factor: molecular and biological characterization," <i>Immunobiol.</i> , 172, pp. 175-184 (1986).
	C79	Tsuneoka et al., "A granulocyte colony-stimulating factor from serum-free cultures of RSP-2-P3 cells: its separation from a macrophage colony-stimulating factor and its biological and molecular characterization," <i>Cell Struct. and Funct.</i> , 9, pp. 67-81 (1984).
	C80	Suggs et al., "Use of synthetic oligonucleotides as hybridization probes: isolation of cloned cDNA sequences for human $\beta_2$ -microglobulin," <i>Proc. Nat'l Acad. Sci. USA</i> , 78, pp. 6613-6617 (1981).
	C81	Nomura et al., "Purification and characterization of human granulocyte colony-stimulating factor." <i>EMBO J.</i> , 5:871-876 (1986).
	C82	Kawasaki et al., "Molecular cloning of a complementary DNA encoding human macrophage-specific colony-stimulating factor (CSF-1), <i>Science</i> , 230, pp. 291-296 (1985).
	C83	Miura et al., "Use of the deoxyinosine-containing probe to isolate and sequence cDNA encoding the fusion (F) glycoprotein of Sendai virus (HVJ)," <i>Gene</i> , 38, pp. 271-274 (1985).

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-44 (Rev. 11-82)

U.S. Department of Commerce  
Patent and Trademark OfficeApp. Docket No.  
01017 36370Serial No. 07/99272  
09 430,103

## INFORMATION DISCLOSURE STATEMENT

Applicant  
Lawrence M. SouzaFiling Date October 29, 1999Class  
1646

(Use several sheets if necessary.)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<u>88-8</u>	C84	Takahashi et al., "Molecular cloning of the human cholecystokinin (CCK) gene and its structure," 7th Annual Meeting of the Molecular Biology Society of Japan, December, 1974.
	C85	Taniguchi et al., "Construction and identification of a bacterial plasmid containing the human fibroblast interferon gene sequence," <i>Proc. Jpn. Acad.</i> , 55(B), pp. 464-469 (1979).
	C86	Nagata et al., "Synthesis in <i>E. coli</i> of a polypeptide with human leukocyte interferon activity," <i>Nature</i> , 284, pp. 316-320 (1980).
	C87	Taniguchi et al., "Structure and expression of a cloned cDNA for human interleukin-2," <i>Nature</i> , 302, pp. 305-310 (1983).
	C88	Lomedico et al., "Cloning and expression of murine interleukin-1 cDNA in <i>Escherichia coli</i> ," <i>Nature</i> , 312, pp. 458-462 (1984).
	C89	Gray et al., "Cloning and expression of cDNA for human lymphotoxin, a lymphokine with tumour necrosis activity," <i>Nature</i> , 312, pp. 721-724 (1984).
	C90	Pennica et al., "Human tumour necrosis factor: precursor structure, expression and homology to lymphotoxin," <i>Nature</i> , 312, pp. 724-729 (1984).
	C91	Auron et al., "Nucleotide sequence of human monocyte interleukin 1 precursor cDNA," <i>Proc. Natl. Acad. Sci. USA</i> , 81, pp. 7907-7911 (1984).
	C92	Furutani et al., "Cloning and characterization of the cDNAs for human and rabbit interleukin-1 precursor," <i>Nucleic Acids Res.</i> , 13, No. 16, pp. 5869-5882 (1985).
	C93	Fung et al., "Molecular cloning of cDNA for murine interleukin-3," <i>Nature</i> , 307, pp. 233-237 (1984).
	C94	Cantrell et al., "Cloning, sequence, and expression of a human granulocyte/macrophage colony-stimulating factor," <i>Proc. Natl. Acad. Sci. USA</i> , 82, pp. 6250-6254 (1985).
	C95	Jacobs et al., "Isolation and characterization of genomic and cDNA clones of human erythropoietin," <i>Nature</i> , 313, pp. 806-810 (1985).
	C96	Cameron et al., "Amino acid sequence analysis of human interleukin 1 (IL-1)," <i>J. Exp. Med.</i> , 162, pp. 790-801 (1985).
<u>✓</u>	C97	Beutler et al., "Identity of tumour necrosis factor and the macrophage-secreted factor cachectin," <i>Nature</i> , 316, pp. 552-554 (1985).

EXAMINER

E. H. Sullivan

DATE CONSIDERED

2/1/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 Modified

U.S. Department of Commerce  
Patent and Trademark Office

App. Docket No.

01017 36370

Serial No.

09/94257  
409 430 403

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets, if necessary.)

Applicant

Lawrence M. Souza

Filing Date

October 29, 1999

Class

1646

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

C98	Jong et al., "The <i>CDC8</i> gene of yeast encodes thymidylate kinase," <i>The Journal of Biological Chemistry</i> , 259, pp. 11052-11059 (1984).
C99	Nikaido et al., "Molecular cloning of cDNA encoding human interleukin-2 receptor," <i>Nature</i> , 311, pp. 631-635 (1984).
C100	Baird et al., "Retina- and eye-derived endothelial cell growth factors: partial molecular characterization and identity with acidic and basic fibroblast growth factors," <i>Biochem.</i> , 24, No. 27, pp. 7855-7860 (1985).
C101	Jacobs et al., "Isolation and characterization of genomic and cDNA clones of human erythropoietin," <i>Nature</i> , 313, pp. 806-809 (1985).
C102	Ebina et al., "The human insulin receptor cDNA: the structural basis for hormone-activated transmembrane signalling," <i>Cell</i> , 40, pp. 747-758 (1985).
C103	Minamino et al., "Neuromedin U-8 and U-25: novel uterus stimulating and hypertensive peptides identified in porcine spinal cord," <i>Biochemical and Biophysical Research Communications</i> , 130, No. 3, pp. 1078-1085 (1985).
C104	Yoshinaka et al., "Translational readthrough of an amber termination codon during synthesis of feline leukemia virus protease," <i>Journal of Virology</i> , 55, pp. 870-873 (1985).
C105	Lee et al., "Biochemical characterization of the 94- and 78-kilodalton glucose-regulated proteins in hamster fibroblasts," <i>The Journal of Biological Chemistry</i> , 259, No. 7, pp. 4616-4621 (1984).
C106	Esch et al., "Characterization of a 40 residue peptide from a human pancreatic tumor with growth hormone releasing activity," <i>Biochemical and Biophysical Research Communications</i> , 109, No. 1, pp. 152-158 (1982).
C107	Bohlen et al., "Human brain fibroblast growth factor," <i>FEBS Letters</i> , 185, No. 1, pp. 177-181 (1985).
C108	Broze, Jr. et al., "Purification of human brain tissue factor," <i>The Journal of Biological Chemistry</i> , 260, No. 20, pp. 10917-10920 (1985).
C109	Ohtsuka et al., "An alternative approach to deoxyoligonucleotides as hybridization probes by insertion of deoxyinosine at ambiguous codon positions," <i>J. Biol. Chem.</i> , 260, No. 5, pp. 2605-2608 (1985).

EXAMINER

P. K. K. K.

DATE CONSIDERED

3/15/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-449 (Modified)

U.S. Department of Commerce  
Patent and Trademark OfficeApp. Docket No.  
01017 36370Serial No.  
~~00430103~~

## INFORMATION DISCLOSURE STATEMENT

Applicant  
Lawrence M. SouzaFiling Date *w/c 10/*  
~~October 29, 1999~~Page No.  
1646

(Use several sheets if necessary.)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>EEK</i>	C110	Ohkubo et al., "Cloning and sequence analysis of cDNA for rat antiotensinogen," <i>Proc. Natl. Acad. Sci. USA</i> , 80, pp. 2196-2200 (1983).
<i> </i>	C112	Liang et al., "Characterization of human interleukin 2 derived from <i>Escherichia coli</i> ," <i>Biochem. J.</i> 229, pp. 429-439 (1985).
<i> </i>	C113	Derynck et al., "Human transforming growth factor- $\alpha$ : precursor structure and expression in <i>E. coli</i> ," <i>Cell</i> , 38, pp. 287-297 (1984).
<i> </i>	C114	Ullrich et al., "Human epidermal growth factor receptor cDNA sequence and aberrant expression of the amplified gene in A431 epidermoid carcinoma cells," <i>Nature</i> , 309, pp. 418-425 (1984).
<i> </i>	C115	Ullrich et al., "Isolation of the human insulin-like growth factor I gene using a single synthetic DNA probe," <i>The EMBO Journal</i> , 3, pp. 361-364 (1984).
<i> </i>	C116	Ullrich et al., "Human insulin receptor and its relationship to the tyrosine kinase family of oncogenes," <i>Nature</i> , 313, pp. 756-761 (1985).
<i> </i>	C118	Toole et al., "Molecular cloning of a cDNA encoding human antihaemophilic factor," <i>Nature</i> , 312, pp. 342-347 (1984).
<i> </i>	C119	Wood et al., "Expression of active human factor VIII from recombinant DNA clones," <i>Nature</i> , 312, pp. 330-336 (1984).
<i> </i>	C120	Derynck et al., "Human transforming growth factor- $\beta$ complementary DNA sequence and expression in normal and transformed cells," <i>Nature</i> , 316, pp. 701-705 (1985).
<i> </i>	C121	Mason et al., "Complementary DNA sequences of ovarian follicular fluid inhibin show precursor structure and homology with transforming growth factor- $\beta$ ," <i>Nature</i> , 318, pp. 659-663 (1985).
<i> </i>	C122	Docherty et al., "Sequence of human tissue inhibitor of metalloproteinases and its identity to erythroid-potentiating activity," <i>Nature</i> , 318, pp. 66-69 (1985).
<i> </i>	C123	Lauffer et al., "Topology of signal recognition particle receptor in endoplasmic reticulum membrane," <i>Nature</i> , 318, pp. 334-338 (1985).
<i>N</i>	C124	Betsholtz et al., "cDNA sequence and chromosomal localization of human platelet-derived growth factor A-chain and its expression in tumour cell lines," <i>Nature</i> , 320, pp. 695-699 (1986).

EXAMINER

*S. Berman*

DATE CONSIDERED

*3/15/03*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1010-449 (Mod 12-80)	U.S. Department of Commerce Patent and Trademark Office	App. Docket No. 01017 36370	Serial No. 61/992873 <del>49430103</del>
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		Applicant Lawrence M. Souza	
		Filing Date 11/6/61 October 29, 1999	Class 1646

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
C125	Knopf et al., "Cloning and expression of multiple protein kinase C cDNAs," <i>Cell</i> , 46, pp. 491-502 (1986).	
C126	Benedum et al., "The primary structure of bovine chromogranin A: a representative of a class of acidic secretory proteins common to a variety of peptidergic cells," <i>The EMBO Journal</i> , 5, No. 7, pp. 1495-1502 (1986).	
C127	Abraham et al., "Nucleotide sequence of a bovine clone encoding the angiogenic protein, basic fibroblast growth factor," <i>Science</i> , 233, pp. 545-548 (1986).	
C128	Ullrich et al., "Insulin-like growth factor I receptor primary structure: comparison with insulin receptor suggests structural determinants that define functional specificity," <i>The EMBO Journal</i> , 5, pp. 2503-2512 (1986).	
C129	Grundmann et al., "Characterization of cDNA coding for human factor XIIIa," <i>Proc. Natl. Acad. Sci. USA</i> , 83, pp. 8024-8028 (1986).	
C130	Bray et al., "Human cDNA clones for four species of G <sub>α</sub> signal transduction protein," <i>Proc. Natl. Acad. Sci. USA</i> , 83, pp. 8893-8897 (1986).	
C131	Anderson et al., "Isolation of a genomic clone for bovine pancreatic trypsin inhibitor by using a unique-sequence synthetic DNA probe," <i>PNAS (USA)</i> , 80, pp. 6836-6840 (1983).	
C132	Church et al., "Genomic sequencing" <i>PNAS (USA)</i> , 81, pp. 1991-1995 (1984).	
C133	Souza et al., <i>American Society of Hematology</i> , Abstract 536, p. 162a, (Nov. 1985).	
C134	Neumeier et al., "Purification of granulocyte colony-stimulating factor monitored by ultrathin-layer isoelectric focusing," <i>2-Mammalian Hormones, Vol.</i> , 97, p. 113 (1982).	
C135	Okabe et al., "Large-scale preparation and characterization of human colony-stimulating factor," <i>Journal of Cellular Physiology</i> , 110, pp. 43-49 (1982).	
C136	Dalbadie-McFarland, G. et al., "Oligonucleotide-directed Mutagenesis as a General and Powerful Method for Studies of Protein Function," <i>Proc. Natl. Acad. Sci., USA</i> , 79:6409-6413 (November, 1982).	
C137	McWilliam et al., <i>J. Exp. Med.</i> , 179(4):1331-1336 (1994) (ABSTRACT).	
C138	Nicola, N.A. et al., "Separation of Functionally Distinct Human Granulocyte-Macrophage Colony-Stimulating Factors," <i>Blood</i> , 54:614-627 (1979).	

EXAMINER <i>E. J. ...</i>	DATE CONSIDERED 3/15/63
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form P-101 4-87 (MPEP 609)

U.S. Department of Commerce  
Patent and Trademark Office

App. No.

01017 36370

Serial No.

01017 36370

## INFORMATION DISCLOSURE STATEMENT

Applicant

Lawrence M. Souza

Filing Date

October 29, 1999

Class

1646

(Use several sheets if necessary)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EEC	C139	Pawinska <i>et al.</i> , <i>Mater. Med. Pol.</i> , 23(1):13-16 (1991).
	C140	Tujsawa <i>et al.</i> , <i>CA</i> , 105 (1986) (#1891929).
	C141	Souza <i>et al.</i> , "Recombinant-human granulocyte colony-stimulating factor: effects on normal and leukemic myeloid cells," <i>Science</i> , 232:61-65 (1986).
	C142	Hartung, T. <i>et al.</i> , "Effect of Granulocyte Colony-Stimulating Factor Treatment on Ex Vivo Blood Cytokine Response in Human Volunteers," <i>Blood</i> , 85(9):2482-2489 (1995).
	C143	Nagata, S. <i>et al.</i> , "Gene Structure and Function of Granulocyte Colony-Stimulating Factor," <i>BioEssays</i> , 10(4):115-117 (1989).
	C144	Donahue <i>et al.</i> , "Stimulation of haematopoiesis in primates by continuous infusion of recombinant human GM-CSF," <i>Nature</i> , 321:872-875 (1986).
	C145	Gabrilove <i>et al.</i> , "Pluripoietin $\alpha$ : A second human hematopoietic colony-stimulating factor produced by the human bladder carcinoma cell line 5637," <i>Proc. Natl. Acad. Sci., USA</i> , 83:2478-2482 (1986).
	C146	Gasson <i>et al.</i> , "Purified Human Granulocyte-Macrophage Colony-Stimulating Factor: Direct Action on Neutrophils," <i>Science</i> , 226:1339-1342 (1984).
	C147	Hogg, N., "Factor-induced differentiation and activation of macrophages," <i>Immunology Today</i> , 7(3):65-66 (1986).
	C148	Lu <i>et al.</i> , "Effects of Recombinant Human Tumor Necrosis Factor $\alpha$ , Recombinant Human $\gamma$ -Interferon, and Prostaglandins E on Colony Formation of Human Hematopoietic Progenitor Cells Stimulated by Natural Human Pluripotent Colony-Stimulating Factor, Pluripoietin $\alpha$ , and Recombinant Erythropoietin in Serum-free Cultures," <i>Cancer Research</i> , 46:4357-4361 (1986).
	C149	Schrader <i>et al.</i> , "Structural homologues among the hemopoietins," <i>Proc. Natl. Acad. Sci., USA</i> , 86:2458-2462 (1986).
	C150	Whettan <i>et al.</i> , "Haemopoietic growth factors," <i>TIBS</i> , 11:207-211 (1986).
	C151	Bebbington <i>et al.</i> , "The expression of recombinant DNA products in mammalian cells," <i>TIBS</i> , 3:314-317 (1985).
	C152	De Ferra <i>et al.</i> , "Alternative Splicing Accounts for the Four Forms of Myelin Basic Protein," <i>Cell</i> , 43:721-727 (1985).

EXAMINER

E. J. [Signature]

DATE CONSIDERED

3/15/03

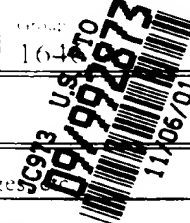
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449, Modified

U.S. Department of Commerce  
Patent and Trademark OfficeApp. Number  
01017 36370Serial No.  
09 130 103

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary.)

Applicant  
Lawrence M. SouzaFiling Date  
October 20, 1999Class  
164

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

✓	C153	Dexter, T.M., "The message in the medium." <i>Nature</i> , 309:746-747 (1984).
✓	C154	Gabrilove et al., "Constitutive Production of Leukemia Differentiation, Colony-Stimulating, Erythroid Burst-Promoting, and Pluripoietic Factors by a Human Hepatoma Cell Line: Characterization of the Leukemia Differentiation Factor." <i>Blood</i> , 66:407-415 (1985).
✓	C155	Harris et al., "Distinct Differentiation-inducing Activities of $\gamma$ -Interferon and Cytokine Factors Acting on the Human Promyelocytic Leukemia Cell Line HL-60." <i>Cancer Research</i> , 45:3090-3095 (1985).
✓	C156	Ikebuchi et al., "Granulocyte colony-stimulating factor enhances interleukin 3-dependent proliferation of multipotential hemopoietic progenitors." <i>Proc. Natl. Acad. Sci., USA</i> , 85:3445-3449 (1988).
✓	C157	Metcalf, D., "The Molecular Biology and Functions of the Granulocyte-Macrophage Colony-Stimulating Factors." <i>Blood</i> , 67:257-267 (1986).
✓	C158	Sieff et al., "Human Recombinant Granulocyte-Macrophage Colony-Stimulating Factor: A Multilineage Hematopoietin." <i>Science</i> , 230:1171-1173 (1985).

EXAMINER

E. J. G. ...

DATE CONSIDERED

3/12/01

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.